

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/834,704	04/12/2001	John E. Brezak	MSI-648US	5021
22801	7590	08/18/2004	EXAMINER	
LEE & HAYES PLLC 421 W RIVERSIDE AVENUE SUITE 500 SPOKANE, WA 99201			PARTHASARATHY, PRAMILA	
			ART UNIT	PAPER NUMBER

2136

DATE MAILED: 08/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/834,704	<b>Applicant(s)</b> BREZAK ET AL.	
	<b>Examiner</b> Pramila Parthasarathy	<b>Art Unit</b> 2136	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 03 October 2001.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 April 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. This action is in response to the communication filed on 10/03/2001. Claims 1 – 17 were received for consideration. No preliminary amendments to the claims were filed. Claims 1 – 17 are currently being considered.

### ***Drawings***

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: “message 318” is not labeled in fig. 5.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled “Replacement Sheet” in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 1-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Spies et al. (Patent Number 5,689,565).

Regarding Claim 1, Pierce teaches and describes a method for use in protecting information in forwarded authentication messages (Fig.10, 11, 15, 17, 18, 23 and Column 8 line 61 –Column 12 line 63), the method comprising:

encoding data using an encryption key (Column 8 line 61 – Column 9 line 2 and Column 17 line 13 – Column 18 line 45);

encoding the encryption key using at least one other encryption key (Column 9 line 59 – Column 10 line 9 and Column 17 line 13 – Column 18 line 45); and

encapsulating the resulting encoded data and the encoded encryption key in a forwarded authentication message (Column 12 lines 60 – 66; Column 15 line 63 – Column 16 line 3 and Column 17 line 13 – Column 18 line 45).

Regarding Claim 6, Pierce teaches and describes a computer-readable medium for use in protecting information in forwarded authentication messages (Fig.10, 11, 15,

17, 18, 23 and Column 8 line 61 –Column 12 line 63), the computer-readable medium having computer-executable instructions for performing acts comprising:

using an encryption key to encode data (Column 8 line 61 – Column 9 line 2 and Column 17 line 13 – Column 18 line 45);

using at least one other encryption key to encode the encryption key (Column 0 line 59 – Column 10 line 9 and Column 17 line 13 – Column 18 line 45);

including the resulting encoded data in at least one authentication message; and including the encoded encryption key in at least one authentication message (Column 12 lines 60 – 66; Column 15 line 63 – Column 16 line 3 and Column 17 line 13 – Column 18 line 45).

Regarding Claim 12, Pierce teaches and describes an apparatus for use in protecting information in forwarded authentication messages (Fig.10, 11, 15, 17, 18, 23 and Column 8 line 61 –Column 12 line 63), the apparatus comprising logic configured to encode data using an encryption key (Column 8 line 61 – Column 9 line 2 and Column 17 line 13 – Column 18 line 45),

encode the encryption key using at least one other encryption key (Column 9 line 59 – Column 10 line 3 and Column 17 line 13 – Column 18 line 45), and

encapsulate the resulting encoded data and the encoded encryption key in an authentication message (Column 12 lines 60 – 66; Column 15 line 63 – Column 16 line 3 and Column 17 line 13 – Column 18 line 45).

Regarding Claim 17, Pierce teaches and describes a computer-readable medium having stored thereon an authentication message (Fig.10, 11, 15, 17, 18, 23 and Column 8 line 61 –Column 12 line 63), comprising;

encoded data (Column 8 line 61 – Column 9 line 2 and Column 17 line 13 – Column 18 line 45); and

at least one encoded encryption key operatively associated with at least a portion of the encoded data (Column 9 line 59 – Column 19 line 9 and Column 17 line 13 – Column 18 line 45).

Claim 2 is rejected as applied above in rejecting claim 1. Furthermore, Pierce teaches and describes, a method for use in protecting information in forwarded authentication messages, further comprising encoding the encryption key a plurality of times using a plurality of other encryption keys, and further encapsulating the resulting encoded encryption keys in the authentication message (Column 13 lines 37 – 65 and Column 17 line 13 – Column 18 line 45).

Claim 3 is rejected as applied above in rejecting claim 1. Furthermore, Pierce teaches and describes, a method for use in protecting information in forwarded authentication messages, wherein the authentication message includes a Kerberos ticket (Column 14 lines 63 – 67).

Claim 5 is rejected as applied above in rejecting claim 1. Furthermore, Pierce teaches and describes, a method for use in protecting information in forwarded authentication messages, further comprising:

providing the authentication message to a service (Column 3 lines 7 - 33; and Column 16 line 65 – Column 18 line 45);

providing the at least one other encryption key to the service (Column 17 lines 39 – Column 18 line 45);

causing the service to decode the encoded encryption key using the at least one other encryption key; and causing the service to decode the encoded data using the resulting decoded encryption key (Column 17 lines 13 – 58 and Column 18 lines 27 – 37).

Claim 7 is rejected as applied above in rejecting claim 6. Furthermore, Pierce teaches and describes, a computer-readable medium for use in protecting information in forwarded authentication messages, the computer-readable medium having computer-executable instructions wherein including the resulting encoded data in at least one authentication message and including the encoded encryption key in at least one authentication message, cause the resulting encoded data and the encoded encryption key to be included in the same authentication message (Column 8 line 61 – Column 10 line 9; Column 12 lines 60 – 66 and Column 15 line 63 – Column 16 line 3).



Claim 8 is rejected as applied above in rejecting claim 6. Furthermore, Pierce teaches and describes, a computer-readable medium for use in protecting information in forwarded authentication messages, the computer-readable medium having computer-executable instructions further comprising

computer-executable instructions for encoding the encryption key a plurality of times using a plurality of other encryption keys, and further encapsulating the resulting encoded encryption keys in at least one authentication message (Column 13 lines 37 – 65).

Claim 9 is rejected as applied above in rejecting claim 6. Furthermore, Pierce teaches and describes, a computer-readable medium for use in protecting information in forwarded authentication messages, the computer-readable medium having computer-executable instructions, wherein the authentication message includes a Kerberos ticket (Column 14 lines 63 – 67).

Claim 11 is rejected as applied above in rejecting claim 6. Furthermore, Pierce teaches and describes, a computer-readable medium for use in protecting information in forwarded authentication messages, the computer-readable medium having computer-executable instructions further providing the authentication message to a service;

providing the at least one other encryption key to the service (Column 17 lines 39 – 67);

causing the service to decode the encoded encryption key using the at least one other encryption key; and causing the service to decode the encoded data using the resulting decoded encryption key (Column 17 lines 13 – 58 and Column 18 lines 27 – 37).

Claim 13 is rejected as applied above in rejecting claim 12. Furthermore, Pierce teaches and describes, an apparatus for use in protecting information in forwarded authentication messages, wherein the logic is further configured to encode the encryption key a plurality of times using a plurality of other encryption keys, and further encapsulate the resulting encoded encryption keys in the authentication message (Column 13 lines 37 – 65).

Claim 14 is rejected as applied above in rejecting claim 12. Furthermore, Pierce teaches and describes, an apparatus for use in protecting information in forwarded authentication messages, wherein the authentication message includes a Kerberos ticket (Column 14 lines 63 – 67).

Claim 16 is rejected as applied above in rejecting claim 12. Furthermore, Pierce teaches and describes, an apparatus for use in protecting information in forwarded authentication messages, further comprising a least one service operatively coupled to receive the authentication message from the logic (Column 3 lines 7 – 33 and Column 16 line 65 – Column 17 line 27), and

configured to decode the encoded encryption key using the at least one other encryption key and decode the encoded data using the resulting decoded encryption key (Column 17 lines 13 – 58 and Column 18 lines 27 – 37).

Claim 4 is rejected as applied above in rejecting claim 3. Furthermore, Pierce teaches and describes, a method for use in protecting information in forwarded authentication messages, wherein the data includes authorization data within the Kerberos ticket (Column 14 lines 63 – 67 and Column 15 lines 11 – 35).

Claim 10 is rejected as applied above in rejecting claim 9. Furthermore, Pierce teaches and describes, a computer-readable medium for use in protecting information in forwarded authentication messages, the computer-readable medium having computer-executable instructions, wherein the data includes authorization data within the Kerberos ticket (Column 14 lines 63 – 67 and Column 15 lines 11 – 35).

Claim 15 is rejected as applied above in rejecting claim 14. Furthermore, Pierce teaches and describes, an apparatus for use in protecting information in forwarded authentication messages, wherein the data includes authorization data within the Kerberos ticket (Column 14 lines 63 – 67 and Column 15 lines 11 – 35).

**Conclusion**

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks, Washington, D.C. 20231 **or**  
**faxed to:** (703) 872-9306 for all formal communications.


Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Fourth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pramila Parthasarathy whose telephone number is 703-305-8912. The examiner can normally be reached on 8:00a.m. To 5:00p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

**Pramila Parthasarathy**  
**Patent Examiner**  
**703-305-8912**  
August 10, 2004

  
**AYAZ SHEIKH**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2100**